



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/722,174

11/25/2000

Kia Silverbrook

NPA081US

3854

24011

7590

12/15/2006

SILVERBROOK RESEARCH PTY LTD
393 DARLING STREET
BALMAIN, NSW 2041
AUSTRALIA

EXAMINER

GRAHAM, CLEMENT B

ART UNIT

PAPER NUMBER

3692

DATE MAILED: 12/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/722,174

Applicant(s)

SILVERBROOK ET AL.

Examiner

Clement B. Graham

Art Unit

3692

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 September 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5, 8-25, 27-31, 33-40 and 42-47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 8-25, 27-31, 33-40, 42-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 3692

DETAILED ACTION

1. Claims 1-3, 5, 8-25, 27-31, 33-40, 42-47, remained pending.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/14/06 has been entered.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action: (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
4. The factual inquiries set forth in *Graham v. John Deere Co.*, 148 USPQ 459, that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 1. Determining the scope and contents of the prior art.
 2. Ascertaining the differences between the prior art and the claims at issue.
 3. Resolving the level of ordinary skill in the pertinent art.
 4. Considering objective evidence present in the application indicating obviousness or unobviousness.
5. Claims 1-3, 5, 8-25, 27-31, 33-40, 42-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Perazza patent (5,326,959) in view of Sekendur U.S Patent 5, 477, 012.

As per claim 1, Perazza discloses a method of enabling payment of bills, the via a bill the containing information relating to a requested payment, the bill including a plurality of tags, each tag containing coded data indicative of an identity of the bill a location of that tag on the bill;

receiving, in a computer system, indicating data from a an optical imaging pen ("i. e, suitable optical character reader" see column 5 lines 30-35")

regarding the identity of the bill and a position of a relative to the bill, the pen when placed in an operative position relative to the bill, generating the indicating data using at least some of the coded data; and

identifying, in the computer system and from the indicating data, at least one parameter relating to the requested payment.(Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

Perazza fail to explicitly teach a nib of the pen.

However sckendur discloses provide a system that most closely emulates the use of pen and paper. Accordingly, the present invention proposes the use of a surface (paper) formatted with a position-related coding means for indicating X-Y coordinates capable of reflecting a frequency of light. The stylus (pen) has a light source of a frequency for illuminating the surface. The frequency of light is absorbed by the surrounding surface but reflected by the coding means back into the stylus onto a charge-coupled device (CCD) chip located within the stylus. The information is sent to a computer for processing and finally output to the user. The frequency(s) of light to be used depends on the application. For example, infrared light and light reflecting means can be used for hand writing on paper to be invisible and not interfere with the written text.(see column 4 lines 1-67 and column 5 lines 1-35 and column 2 lines 1-67).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Perazza suitable optical character reader to include a pen or nib of the pen taught by sckendur in order to generate computer data from obtaining and outputting the position and/or movement of a moveable element in a data space, in two or three dimensions, such as might be used for determining the position and/or movement of a pen on or over paper.

As per claim 2, Perazza discloses in which said at least one parameter relating to the requested payment is associated with at least one zone of the bin and in which the method includes identifying, in the computer system and from the zone relative to which the pen("i. e, suitable optical character reader") see column 5 lines 30-35") is located, said at least one parameter. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 3, Perazza discloses which includes receiving, in the computer system, data regarding movement of the device pen ("i. e, suitable optical character

Art Unit: 3692

reader") see column 5 lines 30-35") relative to the bill, the pen sensing its movement relative to the bill using at least some of the coded data:, and identifying, in the computer system and from said movement being at least partially within said at least one zone, said at least one parameter of the requested payment. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 5, Perazza discloses the method including further steps of: receiving, in the computer system, data from the pen("i. e, suitable optical character reader" see column 5 lines 30-35") regarding an identity of a person associated with the pen identifying, in the computer system and from the data regarding the identity of the person the requested payment. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 8, Perazza discloses in which the at least one parameter is an action parameter of the requested payment, the method including affecting, in the computer system, an operation in respect of the action parameter. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 9, Perazza discloses in which the action parameter of the requested payment is selected from the group comprising: requesting that payment be made, specifying a payment amount or resetting the bill to an original state. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 10, Perazza discloses in which the parameter is an option parameter of the requested payment, the method including identifying, in the computer system, that the person has entered a hand-drawn mark by means of the pen ("i. e, suitable optical character reader" see column 5 lines 30-35") and effecting, in the computer system, an operation associated with the option parameter. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 11, Perazza discloses in which the option parameter is associated with at least one of cardholder name, payment method or credit card type. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 12, Perazza discloses in which the parameter is a text parameter of the requested payment, the method including identifying, in the computer system, that the person has entered handwritten text data by means of the pen("i. e, suitable optical character reader" see column 5 lines 30-35") effecting, in the computer system, an operation associated with the text parameter. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 13, Perazza discloses which includes converting, in the computer system, the handwritten text data("i. e, suitable optical character reader" see column 5 lines 30-35") to computer text. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 14, Perazza discloses in which the text parameter is associated with at least one of a cardholder name, an amount paid or a card expiry date. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 15, Perazza discloses in which the at least one parameter is an authorization parameter of the requested payment, the method including identifying, in the computer system, that the person has entered a handwritten signature by means of the pen("i. e, suitable optical character reader" see column 5 lines 30-35") effecting, in the computer system, an operation associated with the authorization parameter. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 16, Perazza discloses which includes verifying, in the computer system, that the signature is that of the person. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 17, Perazza discloses in which the authorization parameter is associated with payment authorization. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 18, Perazza discloses which includes enabling the person to print the bill on demand. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 19, Perazza discloses which includes printing the bill on a surface and, at the same time that the bill is printed, printing the coded data on the surface. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 20, Perazza discloses which includes printing the coded data to be invisible to an average unaided human eye. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 21, Perazza discloses which includes retaining a retrievable record of each bill generated, the bill being retrievable using its identity as contained in its coded data. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 22, Perazza discloses which includes distributing a plurality of the bills using a mixture of multicast and pointcast communications protocols. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 23, Perazza discloses in which the pen contains identity data which imparts a unique identity to the pen("i. e, suitable optical character reader" see column 5 lines 30-35") and identifies it as being associated with the person and in which the method includes monitoring, in the computer system, said identity. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 24, Perazza discloses which includes providing all required information relating to the requested payment in the bill to eliminate the need for a separate display device. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 25, Perazza discloses 25. (Currently Amended) The method of claim 1 in which the bill is printed on multiple pages and in which the method includes binding the pages. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 27, Perazza discloses wherein:
a printer associated with the pen("i. e, suitable optical character reader" see column 5 lines 30-35") is caused to print a payment receipt after a payment has been completed. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 28, Perazza discloses whereon the payment receipt comprises coded data indicative of the identity of the receipt. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 29, Perazza discloses a method of enabling payment of bills, the via a bill containing information relating to a requested payment, the bill including a plurality of tags, each tag containing coded data indicative of an identity of the bill a location of that tag on the bill;

receiving, in a computer system, indicating data from-a an optical imaging pen ("i. e, suitable optical character reader" see column 5 lines 30-35")

regarding the identity of the bill and a position of relative to the bill, the pen when placed in an operative position relative to the bill, generating the indicating data using at least some of the coded data; and

identifying, in the computer system and from the indicating data, at least one parameter relating to the requested payment. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

Perazza fail to explicitly teach a nib of the pen.

However sckendur discloses provide a system that most closely emulates the use of pen and paper. Accordingly, the present invention proposes the use of a surface (paper) formatted with a position-related coding means for indicating X-Y coordinates capable of reflecting a frequency of light. The stylus (pen) has a light source of a frequency for illuminating the surface. The frequency of light is absorbed by the surrounding surface but reflected by the coding means back into the stylus onto a charge-coupled device (CCD) chip located within the stylus. The information is sent to a computer for processing and finally output to the user. The frequency(s) of light to be used depends on the application. For example, infrared light and light reflecting means can be used for

Art Unit: 3692

hand writing on paper to be invisible and not interfere with the written text.(see column 4 lines 1-67 and column 5 lines 1-35 and column 2 lines 1-67).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Perazza suitable optical character reader to include a pen or nib of the pen taught by sckendur in order to generate computer data from obtaining and outputting the position and/or movement of a moveable element in a data space, in two or three dimensions, such as might be used for determining the position and/or movement of a pen on or over paper.

As per claim 30, Perazza discloses in which said at least one parameter relating to the requested payment is associated with at least one zone of the bill. .(see column 4 lines 1-67 and column 5 lines 1-35 and column 2 lines 1-67).

As per claim 31, Perazza discloses which includes the pen ("i. e, suitable optical character reader" see column 5 lines 30-35")

the pen sensing its movement relative to the bill using at least some of the coded data. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 33, Perazza discloses wherein the computer system is configured for receiving form the pen data regarding identity of a person associated with the pen("i. e, suitable optical character reader" see column 5 lines 30-35") identifying from said received data a requested payment, the pen containing the data regarding the identity of the person. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 34, Perazza discloses in which the coded data is also indicative of at least one parameter of the requested payment, the computer system receiving indicating data from the pen ("i. e, suitable optical character reader" see column 5 lines 30-35") regarding said at least one parameter of the requested payment, and the pen sensing the indicating data using at least some of the coded data. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 35, Perazza discloses which includes the pen("i. e, suitable optical character reader" see column 5 lines 30-35"), the pen sensing its movement relative to the bill. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 36, Perazza discloses in which said at least one parameter of the requested payment is selected from the group comprising an action parameter of the requested payment, an option parameter of the requested payment, a text parameter of the requested payment, or an authorization parameter of the requested payment. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 37, Perazza discloses in which the action parameter of the requested payment is selected from the group comprising: requesting that payment be made, specifying a payment amount, or resetting the bill to an original state. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 38, Perazza discloses in which the option parameter is associated with at least one of cardholder name, payment method, or credit card type. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 39, Perazza discloses in which the text parameter is associated with at least one of a cardholder name, an amount paid, or a card expiry date. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 40, Perazza discloses in which the authorization parameter is associated with payment authorization. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 42, Perazza discloses in which the pen contains identity data which imparts a unique identity to the pen ("i. e, suitable optical character reader" see column 5 lines 30-35") and identifies it as being associated with a particular person.

As per claim 43, Perazza discloses in which the bill is printed on a surface and in which the system includes a printer for printing the bill on demand. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 44, Perazza discloses in which the printer prints the coded data at the same time as printing the bill or payment receipt. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 45, Perazza discloses in which the coded data is substantially invisible. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 46, Perazza discloses which includes a database for keeping a retrievable record of each bill generated, each bill being retrievable by using its identity as included in its coded data. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

As per claim 47, Perazza discloses in which, to cater for a bill printed on multiple pages, the printer includes a binder for binding the pages. (Note abstract and see column 5-7 lines 1-67 and column 18 lines 27-67).

Conclusion

Response to Arguments

5. Applicant's arguments filed on 09/14/2006 have been fully considered but they are moot in view of new grounds of rejections.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clement B Graham whose telephone number is 571-272- 6795. The examiner can normally be reached on 7am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on 703-308-0505. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-0040 for regular communications and 703-305-0040 for After Final communications.


Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Application/Control Number: 09/722,174
Art Unit: 3692

Page 11

CG

December 3, 2006



FRANTZY POINVIL
PRIMARY EXAMINER
AU 3692